3. (amended) An isolated DNA [according to claim 1,] selected from the group consisting of:

(a) [a] DNA encoding a protein having an amino acid sequence of amino acids 1 through 417 of SEQ ID NO: 2;

(b) [a] DNA encoding a protein having an amino acid sequence of amino acids 1 through 411 of SEQ ID NO: [5]6;

(c) DNA molecules encoding [biologically active apoptosis inducing receptor] polypeptides that are at least about 70% identical in amino acid sequence to the protein of (a), wherein the polypeptides are capable of inducing apoptosis and identity is determined using the GAP computer program; and

(d) DNA molecules encoding fragments of proteins encoded by the DNA of (a), (b) or (c), [and which encode biologically active AIR] the fragment being capable of inducing apoptosis.

Please cancel claim 4.

Please cancel claim 5.

In claim 13, at line 1, please delete "an AIR" and substitute therefor --a--; and at line 2 please delete "AIR" and substitute therefor --protein--.

In claim 14, at line 1, please delete "an AIR" and substitute therefor --a--; and at line 2 please delete "AIR" and substitute therefor --protein--.

In claim 15, at line 1, please delete "an AIR" and substitute therefor --a--; and at line 2 please delete "AIR" and substitute therefor --protein--.

16. (amended) An isolated polypeptide selected from the group consisting of:

(a) a polypeptide having an amino acid sequence of amino acids 1 through 417 of SEQ ID NO: 2;

(b) a polypeptide having an amino acid sequence of amino acids 1 through 411 of SEQ ID NO: 6;

(c) a[n AIR] polypeptide encoded by a DNA capable of hybridization to a DNA encoding the polypeptide of (a) under stringent conditions that include 50°C, and 5X SSC, [and which is biologically active] the polypeptide being capable of inducing apoptosis; and

(d) [biologically active ]fragments of the polypeptides of (a), or (b), the fragments capable of inducing apoptosis.

17. (amended) An isolated polypeptide [according to claim 16, selected from the group consisting of:

(a) a polypeptide having an amino acid sequence of amino acids 1 through 417 of SEQ ID NO: 2;

(b) a polypeptide having an amino acid sequence of amino acids 1 through 411 of SEQ ID NO: 6;

(c) a polypeptide] that is at least about 70% identical in amino acid sequence to amino acids 1 though 417 of SEQ ID NO:2, wherein the polypeptide is capable of inducing apoptosis and the percent identity is calculated using the GAP computer program. [the polypeptide of (a), and induces apoptosis.; and

(d) fragments of the polypeptides of (a), or (b), the fragments capable of inducing apoptosis.]

Please delete claim 18.

Please add the following new claims:

22. An isolated and purified polypeptide selected from the group consisting of polypeptides comprising amino acids x1 to x2 of SEQ ID NO:2, wherein x1 is any of amino acids 225 to 335, inclusive, and x2 is any of amino acids 410 to 417, inclusive, and fragments of the polypeptide, wherein the fragments are capable of inducing apoptosis.

23. A polypeptide selected from the group consisting of polypeptides comprising amino acids x1 to x2 of SEQ ID NO:2, wherein x1 is any of amino acids 1 to 29, inclusive, and x2 is any of amino acids 190 to 200, inclusive, and fragments of the polypeptide, wherein the fragments are capable of inhibiting apoptosis.

24. An isolated DNA encoding a polypeptide selected from the group of consisting of polypeptides comprising amino acids x1 to x2 of SEQ ID NO:2, wherein x1 is any of amino acids 1 to 29, inclusive, and x2 is any of amino acids 190 to 200, inclusive, and fragments of the polypeptides wherein the fragments are capable of inhibiting apoptosis.

25. An isolated DNA encoding a polypeptide selected from the group of consisting of polypeptides comprising amino acids x1 to x2 of SEQ ID NO:2, wherein x1 is any of amino acids 225 to 335, inclusive, and x2 is any of amino acids 410 to 417, inclusive, and fragments of the polypeptides, wherein the fragments are capable of inducing apoptosis.--